

Appl. No.: 10/036,273
Amdt. dat d April 27, 2004
Reply to Offic action f F bruary 18, 2004

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) An electronic system, comprising:
an electronics unit;
a temperature control logic unit coupled to said electronics unit; and
a fan coupled to said temperature control unit;
wherein said temperature control unit is capable of implementing a plurality of temperature control protocols, ~~each~~ all of said protocols effecting the speed of said fan as a function of only one variable temperature indication; and
wherein said temperature control unit implements a first temperature control protocol upon system initialization and changes to a second temperature control protocol if said electronics unit asserts a temperature signal, wherein said first temperature control protocol being quieter on average than said second temperature control protocol causes the fan to spin at a different speed than the second temperature control protocol for the same level of the temperature indication.
2. (Original) The system of claim 1 wherein said temperature control unit implements a third temperature control protocol that is louder than said second temperature control protocol.
3. (Original) The system of claim 2 wherein said second temperature control protocol is implemented the first time the temperature signal is asserted and the third temperature control protocol is implemented the second time the temperature signal is asserted.

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4. (Original) The system of claim 1 wherein said first temperature control protocol comprises a single fan speed that does not change with temperature.

5. (Original) The system of claim 1 wherein said first temperature control protocol comprises at least two fan speeds, a higher fan speed being selected when the temperature, recorded by a temperature sensor, exceeds a first temperature threshold and a lower fan speed selected when the temperature is below the first temperature threshold.

6. (Currently amended) ~~The system of claim 5~~ An electronic system, comprising:

an electronics unit;

a temperature control logic coupled to said electronics unit; and

a fan coupled to said temperature control unit;

wherein said temperature control unit implements a first temperature control protocol upon system initialization and changes to a second temperature control protocol if said electronics unit asserts a temperature signal, the first and second temperature control protocols effecting the speed of the fan;

wherein said first temperature control protocol comprises at least two fan speeds, a higher fan speed being selected when the temperature, recorded by a temperature sensor, exceeds a first temperature threshold and a lower fan speed selected when the temperature is below the first temperature threshold; and

wherein said second temperature control protocol comprises at least two fan speeds, a higher fan speed being selected when the temperature, recorded by a temperature sensor, exceeds a second temperature threshold and a lower fan speed selected when the temperature is below the second temperature threshold, said second temperature threshold being less than the first temperature threshold.

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7. (Currently amended) A computer system, comprising:
a CPU;
a fan controller coupled to said CPU; and
a fan coupled to said fan controller;
wherein said CPU is capable of implementing a plurality of temperature control protocols, each-all of said protocols effecting the speed of said fan as a function of only one variable temperature indication; and
wherein said CPU implements a first temperature control protocol upon system initialization and changes to a second temperature control protocol if said ~~electronics unit~~ CPU asserts a temperature signal, wherein said first temperature control protocol causes the fan to spin at a different speed than the second temperature control protocol for the same level of the temperature indication being quieter on average than said second temperature control protocol.
8. (Original) The system of claim 7 wherein said CPU implements a third temperature control protocol that is louder than said second temperature control protocol.
9. (Original) The system of claim 8 wherein said second temperature control protocol is implemented the first time the temperature signal is asserted and the third temperature control protocol is implemented the second time the temperature signal is asserted.
10. (Original) The system of claim 7 wherein said first temperature control protocol comprises a single fan speed that does not change with temperature.
11. (Original) The system of claim 7 wherein said first temperature control protocol comprises at least two fan speeds, a higher fan speed being selected when the temperature, recorded by a temperature sensor, exceeds a first

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temperature threshold and a lower fan speed selected when the temperature is below the first temperature threshold.

12. (Original) The system of claim 11 wherein said second temperature control protocol comprises at least two fan speeds, a higher fan speed being selected when the temperature, recorded by a temperature sensor, exceeds a second temperature threshold and a lower fan speed selected when the temperature is below the second temperature threshold, said second temperature threshold being less than the first temperature threshold.

13. (Original) The system of claim 7 wherein said CPU internally monitors its temperature and asserts the temperature signal which indicates the CPU's Internal temperature has reached a threshold.

14. (Currently amended) A method of controlling temperature in an electronic system, comprising:

(a)—initializing the system to a first temperature control protocol that reacts to only one temperature indication;

(b)—determining that a temperature associated with the electronic system has reached a threshold; and

(c)—switching from the first temperature control protocol to a second temperature control protocol that also reacts to only one temperature indication and the same temperature indication as for the first temperature control protocol, said first temperature control protocol being quieter on average than said second temperature control protocol and wherein said first temperature control protocol causes a fan to spin at a different speed than the second temperature control protocol for the same level of the temperature indication.

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15. (Original) The method of claim 14 further including switching to a third temperature control protocol that is louder than said second temperature control protocol.

16. (Original) The method of claim 15 wherein switching to the third temperature control protocol occurs if it is determined that the threshold has again been reached.

17. (Original) The method of claim 14 wherein said first temperature control protocol comprises a single fan speed that does not change with temperature.

18. (Original) The method of claim 14 wherein said first temperature control protocol comprises at least two fan speeds, a higher fan speed being selected when the temperature, recorded by a temperature sensor, exceeds a first temperature threshold and a lower fan speed selected when the temperature is below the first temperature threshold.

19. (Original) The method of claim 18 wherein said second temperature control protocol comprises at least two fan speeds, a higher fan speed being selected when the temperature, recorded by a temperature sensor, exceeds a second temperature threshold and a lower fan speed selected when the temperature is below the second temperature threshold, said second temperature threshold being less than the first temperature threshold.